KJMST2018 Program

<<Oral @E会場>>

2018年11月8日 (木)

KJMST 2018) I (09:35~11:50) 座長: Do-Kyun Kwon (Korea Aerospace Univ.)

KJI-1 09:35 **Thermo-Corrosive and Mechanical Properties of ZrO_2 based Thermal Barrier Coatings**
BYUNG-KOOG JANG (Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Japan)

KJI-2 10:00 **Reactive Glass bonding with Ceramic Layer by Aerosol Deposition**
Dae-Yong JEONG, Ji-Ho LIM, Jin-Woo KIM, Young-Min KONG*, Hyung Sun KIM (Inha University; *University of Ulsan)

KJI-3 10:25 **Application of Zinc Oxide Coatings to Ball Bearing System**
Masahiro TOSA, Michiko SASAKI, Masahiro GOTO, Akira KASAHARA, Hiroshi SUZUKI, Hiroshi HONDA (National Institute for Materials Science, Japan)

KJI-4 11:00 **High performance lead-free piezoelectric single crystals: KNN and CTGAS**
Xiuwei FU, Encarnación G. VILLORA, Yuuki KITANAKA*, Yuji NOGUCHI*, Masaru MIYAYAMA*, Kiyoshi SHIMAMURA**, Naoki OHASHI†*** (National Institute for Materials Science, Japan; *Department of Applied Chemistry, The University of Tokyo, Japan; **National Institute for Materials Science, Japan, Department of Nanoscience and Nanoengineering, Waseda University, Japan; ***National Institute for Materials Science, Japan, Materials Research Center for Element Strategy, Tokyo Institute of Technology, Japan)

KJI-5 11:25 **Ion Conduction and Mechancial Response of Epoxy-Based Solid Polymer Electrolytes for Solid-State Supercapacitors**
최우혁, 권숙진*, 정병문*, 이상복* (부경대학교; *재료연구소)

KJMST 2018)II (13:30~16:15) 座長: Do-Kyun Kwon (Korea Aerospace Univ.)

KJI-6 13:30 **Nb_2O_5-Ge/GeO_2 cluster microspheres as high-rate lithium storage materials**
Jae-Hun Kim (School of Materials Science and Engineering, Kookmin University)

KJI-7 13:55 **Magnetic properties of perovskite-related mixed anion layered compounds, $Sr_2T_MFeAsO_{3-\delta}$, (T_M: Cr, V)**
Yoichi KAMIHARA (Department of Applied Physics and Phisico-Informatics, Faculty of Science and Technology, Keio University, Yokohama, Kanagawa, Japan)

KJI-8 14:20 **Novel Cu_4SnS_4 Electrode for High-performance Supercapacitors**
A. C. Lokhande, Jin Hyeok Kim (Optoelectronics Convergence Research Center and Department of Materials Science and Engineering, Chonnam National University)

KJI-9 15:00 **Immiscible bimetallic catalysts for direct H_2O_2 synthesis**
Hyobin Nam, Donghun Kim, Young-Hoon Kim*, Jae-Pyung Ahn, Kwan-Young Lee*, Sang Soo Han, Seung Yong Lee (Korea Institute of Science and Technology; *Korea Univ.)

KJI-10 15:25 **OER mechanism of Cobalt-based layered compounds**
Shigeto HIRAI, Masaya FURUNAKA, Shunsuke YAGI*, Tomoya OHNO, Takeshi MATSUDA (School of Earth, Energy and Environmental Engineering, Kitami Institute of Technology, Japan; *Institute of Industrial Science, The University of Tokyo, Japan)

KJI-11 15:50 **Enhanced Photocatalytic Activities of Ga_2O_3 Based Nanocomposites and their Applications for Indoor Air Quality (IAQ) Control**
Do-Kyun Kwon, Hyunjeong Bae, Hyunseung Cho, Taehee Yoo, Wansik Hwang (Korea Aerospace University)

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P-136 **Temperature Dependence of ZnO Growth Mechanism on Si(100) Substrate by Atomic Layer Deposition**
Seunghee Cho, Woo seop Jeong, Hyun-A Ko, Doo Won Lee, Min Joo Ahn, Kyu Yeon Shim, Seong Ho Kang, Dongjin Byun (Korea Univ.)

P-137 **Air Tunnel Fabrication in GaN/Sapphire for Chemical Lift-off**
Woo Seop Jeong, Hyun-A Ko, Seunghee Cho, Min Joo Ahn, Doo Won Lee, Kyu-Yeon Shim, Seong Ho Kang, Dongjin Byun (Korea University)

P-138 **Friction of Glass Lubricants for High Temperature Alloy Forging**
Masahiro TOSA, Michiko SASAKI, Masahiro GOTO, Akira KASAHARA, Hiroshi SUZUKI, Hiroshi HONDA (National Institute for Materials Science, Japan)

P-139 **Effect of Liquid Phase SiO_2 on the Densification of Polycarbosilane-derived SiC Ceramics without Additives**
Ji Hwoan LEE, Byung-Koog JANG (Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Japan)

P-140 **AlN single crystals growth in Al-Sn flux**
Yelim Song, Fumio Kawamura*, Takashi Taniguchi*, Kiyoshi Shimamura, Naoki Ohashi** (Graduate School of Advanced Science and Engineering, Waseda University, Japan, National Institute for Materials Science, Japan; *National Institute for Materials Science, Japan; **National Institute for Materials Science, Japan, Materials Research Center for Element strategy, Tokyo Institute of Technology, Japan)

P-141 **Ecofriendly Mg_2Si-based-photodiode for IR sensor applications**
Ahmed ELAMIR, Takeo OHSAWA*, Masaru NAKAMURA*, Kiyoshi SHIMAMURA, Naoki OHASHI** (Optical Single Crystals Group, NIMS, 1-1 Namiki, Tsukuba, Ibaraki, Japan, 2Graduate School of Advanced Science and Engineering, Department of Nanoscience and Nanoengineering, Waseda University, Okubo-3, Shinjuku-ku, Tokyo, Japan; *Optical Single Crystals Group, NIMS, 1-1 Namiki, Tsukuba, Ibaraki, Japan; **Optical Single Crystals Group, NIMS, 1-1 Namiki, Tsukuba, Ibaraki, Japan, Materials Research Center for Element Strategy, Tokyo Tech, Midori, Yokohama, Japan)

P-142 **Chemical stability of sodium alginate thin film employing methylene blue dye for active oxygen species**
Saranya YENCHIT, Abe YUSUKE*, Hiromi YAMANAKA*, Yuta TADOKORO*, Yoshiki ODA**, Satoru IWAMORI (Graduate School of Science and Technology, Tokai University, Japan; *Graduate School of Engineering, Tokai University, Japan; **Department of Research Promotion, Tokai University, Japan)

P-143 **Electrical structure and thermal properties of ZrCuSiAs type mixed anion layered compounds**
Manami NAKANISHI, Masanori MATOBA*, Yoichi KAMIHARA (Department of Applied Physics and Physico-Informatics, Faculty of Science and Technology, Keio University, Japan; *Department of Nanoscience, Institution, Country)

P-144 **Fabrication of Mesoscopic Si Tube for Micro/Nano-Particles**
Naoki Aoyama, Toshiaki Suzuki*, Masaaki Niwa, Mitsuya Motohashi (Department of Engineering, Tokyo Denki University, Tokyo, Japan; *Department of Engineering, Tokyo Denki University, Tokyo, Japan, IB Business, JEOL, Tokyo, Japan)

P-145 **Design of optical stack thin film for the plant growth**
Masahiro Kinoshita, Satoru Iwamori (Graduate School of Science and Technology, Tokai University, Japan, 4-1-1 Kitakaname, Hiratsuka-shi, Kanagawa, 2591292, Japan)

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P-146 **Transport properties of the layered hexagonal compound, $EuSn_2As_2$**

Ryosuke SAKAGAMI, Harunari KARIMATA, Nobuhiko AZUMA, Michitaro YAMAGUCHI, Suguru IWASAKI, Yosuke GOTO*, Yoshikazu MIZUGUCHI*, Masanori MATOBA**, Yoichi KAMIHARA** (1Department of Applied Physics and Physico-Informatics, Faculty of Science and Technology, Keio University, 3-14-1 Hiyoshi, Yokohama 223-8522, Japan; *Department of Physics, Tokyo Metropolitan University, 1-1 Minami-osawa, Hachioji 192-0397, Japan; **Department of Applied Physics and Physico-Informatics, Faculty of Science and Technology, Keio University, 3-14-1 Hiyoshi, Yokohama 223-8522, Japan)

P-147 **Oxidation state of niobium oxide plating by anodic oxidation**

Munenori YOSHIDA, Yuta SHIMOYAMA, Syuichi MAEDA*, Satoru IWAMORI** (Graduate School of Science and Technology, Tokai University, Japan; *Department of Optical and Image Engineering, Tokai University, Japan; **Department of Mechanical Engineering Faculty of Engineering, Tokai University, Japan)

P-148 **Magnetic and structural properties of superconducting mixed anion layered compound, La(Ca)FeAsO(F)**

Kodai KANEYASU, Masanori MATOBA, Yoichi KAMIHARA (Department of Applied Physics and Phisico-Informatics, Faculty of Science and Technology, Keio University, Yokohama, Kanagawa, Japan)

P-149 **Friction and Wear Properties of Ni/Sn Electroplated Films Changed Surface Profile**

Shoya AZUMA, Tadao FUKUTA*, Koichi OZAKI*, Chisa FUKUDA**, Yoshiyuki NISHIMURA**, Yutaka MITOOKA*** (Division of Systems Engineering, Graduate School of Computer Science Engineering, Okayama Prefectural University; *Faculty of Computer Science and Systems Engineering, Department of Systems Engineering, Okayama Prefectural University; **OM Sangyo Co., Ltd; ***Industrial Technology Reseach Institute of Okayama Prefecture)

P-150 **Adhesion of vascular endothelial cells to polystyrene surface modified by active oxygen**

Kazuki HOSOYA, Kazunari TAKAHASHI*, Kei OYA**, Satoru IWAMORI*** (Graduate School of Science and Technology, Tokai University, Japan; *Graduate School of School of Engineering, Tokai University, Japan; **Faculty of Science and Technology, Seikei University, Japan, School of Engineering, Tokai University, Japan; ***Graduate School of Science and Technology, Tokai University, Japan, Graduate School of School of Engineering, Tokai University, Japan, School of Engineering, Tokai University, Japan)